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(54) METHOD OF MANUFACTURING JOSEPHSON DEVICE HAVING RAMP EDGE STRUCTURE AND FILM-FORMING DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a ramp edge type Josephson device having fewer variations in device parameter.

SOLUTION: Since two-step cleaning is carried out in different conditions to remove a deteriorated layer on a ramp edge surface, a flat and even ramp edge surface is formed. Since the ramp edge surface undergoes ion irradiation and a heat treatment, a surface modified layer is formed. As for thermal conduction to a substrate in the heat treatment, thermal conduction in a vapor phase is used to equalize temperature distribution in the substrate.

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